

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

Claims 1-57 (Canceled).

58. (Original) A method of separating groups of nanostructure-containing materials, the method comprising:

- (i) forming a mixture comprising the groups of nanostructure-containing materials to be separated and a liquid medium;
- (ii) introducing a plurality of electrodes into the mixture;
- (iii) establishing an asymmetrical electrical field within the mixture;
- (iv) polarizing the groups of nanostructure-containing materials in the mixture, thereby causing at least a first group to migrate to a first electrode and causing a second group to migrate to a second electrode; and
- (v) recovering at least the first group from the liquid medium at the first electrode.

59. (Original) The method of claim 58, wherein step (v) further comprises recovering the second group from the liquid medium at the second electrode.

60. (Original) The method of claim 58, wherein the first group comprises conductors and the second group comprises semiconductors.

61. (Original) The method of claim 60, wherein the conductors comprise metallic or conductive carbon nanotubes and the semiconductors comprise semiconducting carbon nanotubes.

62. (Original) The method of claim 58, wherein the liquid medium comprises water.

63. (Original) The method of claim 58, wherein step (iii) further comprises applying an alternating current.

64. (Original) The method of claim 63, wherein step (iv) comprises adjusting the frequency of the applied alternating current.

Claims 65-71 (Canceled).